

IN THE CLAIMS

Please cancel claims 7-9 and 12-24 without prejudice.

Please amend the following claims which are pending in the present application:

1. (Currently amended) A superconductor, comprising:
particles made of a superconductive material; and
a conductive material selected to be driven to a superconductive state when in proximity to the superconductive material and at least including gallium, an unbroken section of the conductive material being located sufficiently close to a plurality of the particles to be driven to a superconductive state by the superconductive material, ~~the gallium being prepared to have a structure that has the highest lambda value~~ so that current conducts primarily through the conductive material of the superconductor.
2. (Original) The superconductor of claim 1, wherein the superconductive material is magnesium diboride.
3. (Original) The superconductor of claim 1, wherein the conductive material is in contact with the superconductive material.
4. (Currently amended) A method of making a superconductor, comprising:

~~forming~~ mixing a plurality of particles of a superconductive material;
~~—preparing gallium to have a structure that has the highest lambda value; and~~
with a conductive material, thereby locating ~~[[a]]~~ the conductive material adjacent
the superconductive material, the conductive material being selected to be driven to
a superconductive state when in close proximity to the superconductive material, the
conductive material at least including ~~the prepared~~ gallium, and an unbroken length
of the conductive material being in sufficiently close proximity to a plurality of the
particles to be driven to a superconductive state by the particles.

5. (Previously presented) The method of claim 4, wherein the superconductive material is magnesium diboride.

6. (Original) The method of claim 5, further comprising:
assembling an elongate member from the particles and the superconductive material; and
drawing the elongate member into a wire.

7-9. (Cancelled)

10. (Currently amended) A method of making a superconductor, comprising:
~~forming a plurality of particles of a superconductive material;~~
~~preparing gallium to have an amorphous structure; and~~

assembling an elongate member of ~~locating~~ a conductive material adjacent ~~[[the]]~~
a superconductive material, the conductive material being selected to be driven to a
superconductive state when in close proximity to the superconductive material, the
conductive material at least including ~~the prepared~~ gallium~~[[,]]~~; and

drawing the elongate member into a wire, an unbroken length of the conductive
material being in sufficiently close proximity to a plurality of the particles to be
driven to a superconductive state by the particles.

11. (Previously presented) The method of claim 10, wherein the superconductive
material is magnesium diboride.

12-24. (Cancelled)